Seminar 1 Session #01

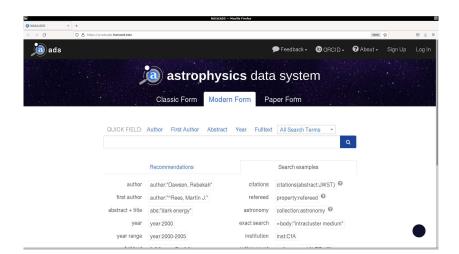
#### Kinoshita Daisuke

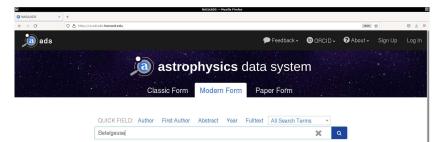
#### Institute of Astronomy, National Central University, Taiwan

#### first semester, academic year 2022 14 September 2022

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author	author:"Dawson, Rebekah"	citations	citations(abstract:JWST)
first author	author:"^Rees, Martin J."	refereed	property:refereed
abstract + title	abs:"dark energy"	astronomy	collection:astronomy @
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Dupree, A 52     Guinan, E 37     Harper, G 37     Perrin, G 32	Colour evolution of Betelgeuse and Antares over two millennia, derived from historical records, as a new constraint on mass and age Neuhäuser, R.; Torres, G.; Mugrauer, M. and 4 more	refereed 🛓 non refereed 🛓
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general 15	Truong, Bao; Tram, Le Ngoc; Hoang, Thiem and 9 more	

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Abstract	derived from historical records, as a new constraint on mass and	Publisher 🕒   🖺
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References (80)	Show affiliations	
Co-Reads	Neuhäuser, R. ; Torres, G. ; Mugrauer, M. ; Neuhäuser, D. L. ; Chapman, J. ; Luge, D. ; Cosci, M.	
Similar Papers	After core hydrogen burning, massive stars evolve from blue-white dwarfs to red	
Volume Content	supergiants by expanding, brightening, and cooling within few millennia. We discuss a	
Graphics	previously neglected constraint on mass, age, and evolutionary state of Betelgeuse and Antares, namely their observed colour evolution over historical times; We place all	
Metrics	236 stars bright enough for their colour to be discerned by the unaided eye (V $\leq$ 3.3	
Export Citation	mag) on the colour-magnitude-diagram (CMD), and focus on those in the Hertzsprung gap. We study pre-telescopic records on star colour with historically critical methods to	
i≡ FEEDBACK	find stars that have evolved noticeably in colour within the last millennia. Our main result is that Betelgeuse was recorded with a colour significantly different (non-red)	

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	Recommendations		Search examples
author	author:"Dawson, Rebekah"	citations	citations(abstract:JWST)
first author	author:"^Rees, Martin J."	refereed	property:refereed
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COLLECTIONS	Gerästmenko         20           Cheng, YC.; Bockelée-Morvan, D.; Roos-Serote, M. and 9 more         20           3□ 2022AAS24013404Y         202206	
astronomy 264 physics 18	Ortho/Para Ratio of Formaldehyde Formed in UV-Photolyzed Interstellar Ice Analogs Yocum, Katarina: Wilkins, Olivia; Milam, Stefanie and 1 more	

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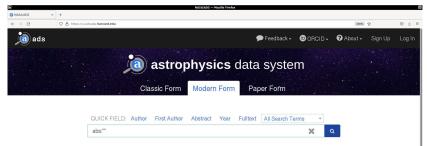
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References (31)	Cheng, YC.; Bockelée-Morvan, D.; Roos-Serote, M.; Crovisier, J.; Debout, V.;		
Co-Reads	Erard, S.; Drossart, P.; Leyrat, C.; Capaccioni, F.; Filacchione, G.; Dubernet, ML.; Encrenaz, T.	GRAPHICS	
Similar Papers	Context. Abundance ratios of the nuclear-spin isomers of H <sub>2</sub> O and NH <sub>3</sub> have been		
Volume Content	measured in about two dozen comets, with a mean value corresponding to a nuclear- spin temperature of ~30 K. The real meaning of these unequilibrated nuclear-spin	. Multillitum	
Graphics	abundance ratios is still debated. However, an equilibrated water ortho-to-para ratio of		
Metrics	3 is also commonly observed.	Click to view more	
Export Citation	Aims: The H channel of the Visible and Infrared Thermal Imaging Spectrometer (VIRTIS-H) on board Rosetta provided high-resolution 2.5-2.9 µm spectra of H <sub>2</sub> O		
≡ FEEDBACK	vapour in the coma of comet 67P/Churyumov-Gerasimenko (67P), which are suitable for the determination of the ortho-to-para ratio (OPR) of water in this comet.		

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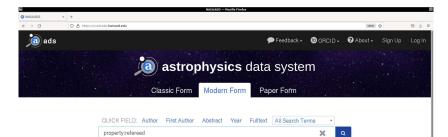
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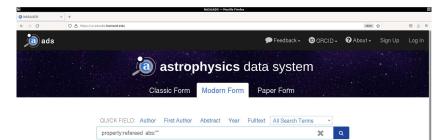
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astronomy 778	Kadlag, Yogita; Tatzel, Michael; Frick, Daniel A. and 2 more 20	
physics 151	3 2021DPS5330625D 2021/10	
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	17 2022AJ_164.119F 202209 cited: 2 AU Microscopii in the Far-UV: Observations in Quiescence, during Flares, and Implications for AU Mic b and c Feinstein, Adina D; France, Kevin; Youngblood, Allison and 13 more		
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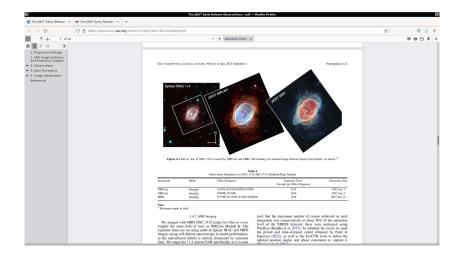
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#### Exercise

- Today's exercise for attendance check
  - Start your favourite web browser.
  - Go to the page https://ui.adsabs.harvard.edu/.
  - Type a keyword (or a set of keywords) in the search box.
  - Push the button and go through the search result.
  - Choose a paper of your interest.
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- Deadline: 10:00 on 21/Sep/2022